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# A Method Proposal for Evaluation of Shopping Centers Regarding Standards Related with Accessibility

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Article Info	Abstract
Received: 29/06/2022 Accepted: 30/06/2022	Shopping centers are used commonly by all users in the cities for many purposes. Every individual has a right to use and benefit from the amenities served in these buildings. Therefore, especially people with disabilities should be able to access and use these building without the restrictions of the physically built environment in these buildings. This study is prepared from
Keywords	the PhD. Thesis prepared by the researcher in Gazi University, Institute of Natural and Applied Sciences. In this study a method has been proposed to evaluate the implementation of
Accessibility Standards, Shopping Centers, Handicapped, Architectural Design	international accessibility standards for built environment by the researcher and valuable information on the specific problems regarding these standards were collected by observation on a built shopping center. In conclusion recommendations were listed to make all areas of the evaluated buildings, accessible by the handicapped.

### 1. INTRODUCTION

This study is prepared from the PhD. Thesis prepared by the researcher in Gazi University, Institute of Natural and Applied Sciences [1]. The main purpose of this study is to observe and evaluate the existing implementations of universal accessibility standards on selected buildings and gather information on existing problems about accessibility within the built physical environments of the selected buildings. For this purpose, shopping center in the city of Ankara was selected for evaluation.

Shopping centers are used by all users in the cities for many purposes. Every individual has a right to use and benefit from the amenities served in these buildings. Therefore, especially people with disabilities should be able to access and use these building without the restrictions of the physically built environment in these buildings.

The implementation of international accessibility standards for built environment can be observed and evaluated by the researcher via the method developed and valuable information on the specific problems regarding these standards can be collected to make recommendations to make all areas of the evaluated buildings, accessible by the handicapped.

Using the method introduced in this study by the researcher, many other researchers also made contributions to the field of architecture by their research on the accessibility standards and the problems encountered within their relative built physical environments in their Master of Science in architecture thesis studies, all of them coordinated by the researcher, in the Gazi University, Institute of Natural and Applied Sciences.

Also, other studies are still ongoing as pending M.Sc. thesis studies in the Gazi University, Institute of Natural and Applied Sciences, with coordination of the researcher.

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Arslantaş (2013), Investigated the Municipality Buildings and Surroundings in Ankara in the Context of Turkish Standards on Accessibility. [2]

Dişyapar (2015), Examined a high school building and their surroundings in the Context of Turkish Standards on Accessibility. [3]

Akatlı (2016), Investigated the public library buildings in the city of Ankara in the Context of Turkish Standards on Accessibility. [4]

Bitigen Saylam (2016), Examined the Municipality buildings in Mersin- Mezitli District in the Context of Turkish Standards on Accessibility. [5]

Demirtaş (2019), Investigated The Nursing Homes and Their Neighborhoods in Eskişehir in the Context of Turkish Standards on Accessibility. [6]

Köse (2019), Investigated The Bartin University Campus and its Surroundings in the Context of Turkish Standards on Accessibility. [7]

Karagöz (2019), Investigated the Çankırı State Hospital Campus and Its Surroundings in the Context of Turkish Standards on Accessibility. [8]

The researcher also used the proposed method to evaluate the Gazi University Faculty of Architecture Buildings regarding Turkish Standards Related with Accessibility. [9]

The main Accessibility Standard which this study emphasizes on is the ADA Standards for Accessible Design. [19] These standards are one of the first widely accepted standards that are also selected as a guideline to many following standards including the Turkish Standards. [17, 18]

In this Study Firstly the Accessibility Values According to Evaluation Forms are evaluated. Each Evaluation forms has a scope of its own based on the ADA Accessibility Standards. Each form is applied to one or more Activity areas as required. All the answers from different areas are collected and gathered to form the General Accessibility Value (G.Ac.V.) of the building. Every forms contribution to the (G.Ac.V.) is then calculated as a percentage to understand the level of Accessibility deficiencies of the building.

Another the of Evaluation would be the evaluation of Accessibility Values According to Activity Areas and related Activity Areas. All activity areas and related areas are questioned with the Related forms. Then the Accessibility value (Ac.V.) of each Activity areas over the General Accessibility Value (G.Ac.V.) is calculated as percentages to display the effect of it on the total value.

With this kind of evaluation, a proposal for reconstruction and altering the built physical environment in favor of Disabled people would be possible. Also, the prioritization of the renovations would be easily scheduled. This way the unfavorable Accessibility Value (Ac.V.) of the most effected Activity area (or the Form) would be decreased and the building would have become a more Accessible and usable place for people with disabilities and mobility restraints.

This method proposed by the researcher in the Ph.D. thesis in the Gazi University, Institute of Natural and Applied Sciences, can be applied to all buildings and surrounding environments in order to achieve a more accessible and usable city not only for the handicapped user but also the elderly, fragile and less mobile individuals.

A group of evaluation forms were prepared and applied on the selected buildings in order to observe the physically built environment and list the problems about accessibility of handicapped people. International accessibility standards were chosen as a basis for these forms and activity area specific forms was evaluated on existing areasof selected buildings.

Every Question in every form had three types of answers. An existing situation questioned in the survey can either be compatible (COMP) / not-compatible (N/COMP) or the question can be not applicable (N/APPL.). If a question is not relatable to any of these it is also answered as Invalid (INV). To make the evaluation of the activity areas in selected buildings comparatively evaluable, points were assigned to each type of answers. If an answer is compatible to the accessibility standards questioned, it is valued as 0 (zero) points. If an answer is not compatible to the accessibility standards questioned, it is valued as 3 (three) points. If the question could not be answered due to a previous not-compatible answer this answer is considered not-applicable and given 1 (one) point. (As it is also pointing out a deficiency in accessibility). An Invalid answer also gets 0 (zero) points.

With this method every activity area in the selected buildings can be observed and evaluated regarding accessibility standards and each activity area will have a Accessibility value (Ac.V.) for itself. These values will be added to a total General Accessibility value (G.Ac.V.) of a building. Each activity area also can be evaluated regarding each other and within the building with this method. As a conclusion the percentages of each (Ac.V) of each activity are over the (G.Ac.V.) of a building has been calculated to describe and determine the priority of problems and practical solutions to these problems could be proposed to increase the accessibility of these public buildings.

Another type of evaluation was made about the types of Questions that are answered in these forms. Each question can be classified such as: 1. The Sufficiency of the Quantity of each requirement questioned (QUA) 2. Existence of a requirement (EXI). 3. Measurement compatibility with the standards (MEA). 4. Material compatibility with the standards (MAT). 5. The compatibility of the signage requirements in the building environment with the standards (SIG). These types of classifications can be used to determine which types of deficiencies are encountered within an existing building and can be used to propose solutions to these specific types of problems.

The evaluation Forms were applied in main and sub activity areas of the selected building in order to determine the deficiencies regarding accessibility standards. The activities of the selected building was classified and listed as follows: 1 Big Market Area (B.M.), 2 Retail Shops floors (R.S.), 3. Dining Area (D.A.), 4. Restaurant areas (R.A.), 5. Cinema Floor (C.F.) , 6. WC and Service (W.C.), 7. Closed Parking Area (P.A.), 8. Main entrance (M.E.), 9. Vertical circulation areas (V.C.), 10. Horizontal Circulation Areas (H.C.).

As the Deficiencies or problems of accessibility are the main contributor to the (Ac.V) of activity areas, The higher the (Ac.V.) of a section the more problematic it is regarding Accessibility Standards. Therefore, the General Accessibility Value (G.Ac.V.) of a building will create a value that rises in proportion to the number of actions it contains and the increase in their internal accessibility problems. Higher (G.Ac.V.) will mean more problematic building.

In this article the existing situation of the selected building was evaluated in the Evaluations section and proposals for practical solutions to the problems encountered are listed in the Conclusions section.

### **3. EVALUATIONS**

## Table 1 Accessibility Values According to Evaluation Forms

Table 1 Accessionity Val				-		-			
Form 1	SCOPE		PARKING						
Applied Activity Areas	1		NUM.ofQU			4	7	1	2
Activity Area (Ac.V.) Total	20,1	1	YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
%1,2	16	7	6	1	2	%43,8	%37,5	%6,3	%12,5
Form 2	SCOPE	PASSENC	ER LOAD	ING/UNL	OADING A	REAS			
Applied Activity Areas	1	1	NUM.ofQU	JESTIONS	0	2	5	1	1
Activity Area (Ac.V.) Total	10,2	1	YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
%0,6	9	3	3	2	1	%33,3	%33,3	%22,2	%11,1
Form 3	SCOPE		R ACCESS						
Applied Activity Areas	3		NUM.ofQU			9	36	3	15
Activity Area (Ac.V.) Total	63,5	1	YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
%3,8	63	30	12	21	0	%47,6	%19,0	%33,3	%0,0
Form 4	SCOPE		NT RAMPS						
Applied Activity Areas	2		NUM.ofQU		0	16	14	2	8
Activity Area (Ac.V.) Total	36,0	1	YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
%2,1	40	16	0	0	24	%40,0	%0,0	%0,0	%60,0
Form 7	SCOPE	RAMPS							
Applied Activity Areas	7		NUM.ofQU		0	49	112	7	0
Activity Area (Ac.V.) Total	338,0	1	YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
%20,0	168	0	7	0	161	%0,0	%4,2	%0,0	%95,8
Form 8	SCOPE	STAIRS							
Applied Activity Areas	5		NUM.ofQU			45	50	0	0
Activity Area (Ac.V.) Total	207,0	1	YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
%12,3	95	45	25	0	25	%47,4	%26,3	%0,0	%26,3
Page 10	20077	DARGE AS	IOT ANTO I	21170					
Form 10	SCOPE		NCE AND I		0.0		10		20
Applied Activity Areas	4		NUM of QU			44	12	0	28
Activity Area (Ac.V.) Total	57,2		YPE.ofQL			EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) % %3,4	ANSWER 112	COMPATIBLE 60	NCOMPATIBLE 8	INVALID 12	N/APPL.	COMPATIBLE 9/52.6	NCOMPATIBLE 9/7.1	INVALID 9/10/7	NAML. %28,6
/0,4	112	60	ð	12	32	%53,6	%7,1	%10,7	/428,0
Form 11	SCOPE	DOORS A	ND PASS	GES					
Applied Activity Areas	5		NUMofQU		10	55	35	5	0
Activity Area (Ac.V.) Total	4,0		YPE.ofQU					-	SIGNAGE
								MATERIAL	
Form (G.Ac.V) % %0,2	ANSWER 105	COMPATIBLE 65	N COMPATIBLE 0	INVALID 40	N/APPL 0	COMPATIBLE %61,9	NCOMPATIBLE	INVALID %38,1	%0,0
/0/,2	105	05	v		v	7601,9	780,0	7603,1	780,0
Form 12	SCOPE	INDOOR	ACCESSIB	LEROUTE	2				
Applied Activity Areas	13		NUM.ofQU			65	130	39	39
Activity Area (Ac.V.) Total	27,0		YPE.ofQU			EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER								
1,6%	273	COMPATIBLE 156	N COMPATIBLE 0	INVALID 117	N/APPL 0	COMPATIBLE 57,1%	NCOMPATIBLE 0,0%	INVALID 42,9%	0,0%
1,070	213	150	v	117		37,176	0,076	44,576	0,078

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Form 13	SCOPE	ELEVATO							
Applied Activity Areas	1		NUM.ofQU			27	20	1	10
Activity Area (Ac.V.) Total	1,1	1	TYPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL.	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
0,1%	58	44	0	14	0	75,9%	0,0%	24,1%	0,0%
Form 14	SCOPE	ROOMS A	ND RELA	TED SPAC	ES				
Applied Activity Areas	5		NUMofQU	JESTIONS	0	25	120	10	10
Activity Area (Ac.V.) Total	51.6		YPE.ofQU		QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL.	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
3,1%	165	95	5	65	0	57,6%	3,0%	39,4%	0,0%
			-						
Form 15	SCOPE	GATHER	NG AREA	e					
Applied Activity Areas	5		NUMofQU		20	35	30	10	15
Activity Area (Ac.V.) Total	362,4		YPE.ofQU						
						EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
21,5%	110	10	30	10	60	9,1%	27,3%	9,1%	54,5%
Form 16	SCOPE	TOILETS							
Applied Activity Areas	4		NUM.ofQU		0	124	232	8	4
Activity Area (Ac.V.) Total	100,4	1	YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NCOMPATIBLE	INVALID	N/APPL.	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
5,9%	368	248	28	84	8	67,4%	7,6%	22,8%	2,2%
Form 18	SCOPE	CHANGE	NG ROOM	S (SHOPS)					
Applied Activity Areas	1	1	NUM.ofQU	JESTIONS	1	4	9	1	0
Activity Area (Ac.V.) Total	87,0	1	YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
Form (G.Ac.V) %	ANSWER	COMPATIBLE	NOMPATHE	INVALID	N/APPL.	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
5.2%	15	2	8	0	5	13,3%	53,3%	0,0%	33,3%
Form 19	SCOPE	SIGNAGE	2						
Form 19 Applied Activity Areas	SCOPE 9	SIGNAGE		JESTIONS	0	00	54	0	0
Applied Activity Areas	9	1	NUM.ofQU		0 OLIANTITY	99 EVISTENCE	54	0 MATERIAL	0 SIGNAGE
Applied Activity Areas Activity Area (Ac.V.) Total	9 240,0	1	NUM.ofQU YPE.ofQU	JESTIONS	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	SIGNAGE
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Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) %	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER	COMPATIBLE 54 DETECTA DETECTA 1 COMPATIBLE 1 COMPATIBLE	NUM of QU YPE.of QU NCOMPATIBLE 18 BLE WAR NUM of QU YPE.of QU XANTS AN NUM of QU YPE.of QU NUM of QU	JESTIONS INVALID 0 NINGS JESTIONS JESTIONS JESTIONS JESTIONS INVALID	QUANTITY N/APPL. 81 0 QUANTITY N/APPL. 8 AREAS 6 QUANTITY N/APPL.	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE	NEASURENENT NCOMPATHEE 11,8% 2 NEASURENENT NCOMPATHEE 14,3% 20 NEASURENENT NCOMPATHEE	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID	SIGNAGE NAPPL. 52,9% 0 SIGNAGE NAPPL. 57,1% 0 SIGNAGE NAPPL.
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) %	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER	COMPATIBLE 54 DETECTA 1 COMPATIBLE 2 RESTAUF	NUM of QU YPE.of QU NCOMPATIBLE 18 BLE WAR NUM of QU YPE.of QU XANTS AN NUM of QU YPE.of QU NUM of QU	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS INVALID JESTIONS INVALID 16	QUANTITY N/APPL. 81 0 QUANTITY N/APPL. 8 AREAS 6 QUANTITY N/APPL. 14	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE	NEASURENENT NCOMPATHEE 11,8% 2 NEASURENENT NCOMPATHEE 14,3% 20 NEASURENENT NCOMPATHEE	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID	SIGNAGE NAPPL. 52,9% 0 SIGNAGE NAPPL. 57,1% 0 SIGNAGE NAPPL.
Applied Activity Areas Activity Area (Ac.V.) Total Form (G.Ac.V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac.V.) Total Form (G.Ac.V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac.V.) Total Form (G.Ac.V) % 2,8%	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36	COMPATIBLE 54 DETECTA COMPATIBLE 2 RESTAUF	NUM of QU YPE.of QU NCOMPATIBLE 18 BLE WAR NUM of QU YPE.of QU NCOMPATIBLE 2 XANTS AN NUM of QU YPE.of QU YPE.of QU YPE.of QU	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS JESTIONS INVALID 16 JESTIONS	QUANTITY N/APPL 81 QUANTITY N/APPL 8 AREAS 6 QUANTITY N/APPL 14 67	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1%	NEASUREMENT NCOMPATHEE 11,8% 2 NEASUREMENT NCOMPATHEE 14,3% 20 NEASUREMENT NCOMPATHEE 5,6%	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4%	SIGNAGE NAML. 52,9% 0 SIGNAGE NAML. 57,1% 0 SIGNAGE NAML. 38,9%
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,8% Applied Activity Areas Total GEN. ACCESS. VALLE (G.Ac V) TOTAL	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36 70 1687,8	COMPATIBLE 54 DETECTA COMPATIBLE 2 RESTAUF 1 COMPATIBLE 4	NUM of QU YPE of QU NCOMPATIBLE 18 BLE WAR NUM of QU YPE of QU NUM of QU NUM of QU YPE of QU NUM of QU	JESTIONS INVALID 0 NINGS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS	QUANTITY N/APPL. 81 0 QUANTITY N/APPL. 8 AREAS 6 QUANTITY N/APPL. 14 67 QUANTITY	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE	NEASUREMENT NEOMPATHEE 11,8% 2 NEASUREMENT NEOMPATHEE 14,3% 20 NEASUREMENT NEOMPATHEE 5,6% 888 NEASUREMENT	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4%	SIGNAGE NAME. 52,9% 0 SIGNAGE NAME. 57,1% 0 SIGNAGE NAME. 38,9%
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,8%	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36 70	COMPATIBLE 54 DETECTA COMPATIBLE 2 RESTAUF	NUM of QU YPE of QU NCOMPATIBLE 18 BLE WAR NUM of QU YPE of QU NUM of QU YPE of QU NUM of QU NUM of QU	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS JESTIONS INVALID 16 JESTIONS	QUANTITY N/APPL 81 QUANTITY N/APPL 8 AREAS 6 QUANTITY N/APPL 14 67	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619	NEASURENENT NCOMPATHEE 11,8% 2 NEASURENENT 14,3% 20 NEASURENENT NCOMPATHEE 5,6% 8888	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4%	SIGNAGE NAPPL. 52,9% 0 SIGNAGE NAPPL. 57,1% 0 SIGNAGE NAPPL. 38,9% 132
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,8% Applied Activity Areas Total GEN. ACCESS. VALLE (G.Ac V) TOTAL Form (G.Ac V) %	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 45,8 ANSWER 36 70 1687,8 ANSWER	COMPATIBLE 54 DETECTA COMPATIBLE 2 RESTAUF 1 COMPATIBLE 4	NUM of QU YPE.of QU NCOMPATIBLE 18 IBLE WAR NUM of QU YPE.of QU NOMPATIBLE 2 ANTS AN NUM of QU NCOMPATIBLE 2 NUM of QU NCOMPATIBLE 2 NUM of QU NCOMPATIBLE 2	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS	QUANTITY N/APPL 81 QUANTITY N/APPL 8 AREAS 6 QUANTITY N/APPL 14 67 QUANTITY N/APPL	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE	NEASURENENT NEOMPATHEE 11,8% 2 NEASURENENT NEOMPATHEE 14,3% 20 NEASURENENT NEOMPATHEE 5,6% 888 NEASURENENT NEOMPATHEE	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4% 94 MATERIAL INVALID	SIGNAGE NAPPL. 52,9% 0 SIGNAGE NAPPL. 57,1% 0 SIGNAGE NAPPL. 38,9% 132 SIGNAGE NAPPL.
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,8% Applied Activity Areas Total GEN ACCESS VALLE (G.Ac V) TOTAL Form (G.Ac V) % 100,0%	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36 70 1687,8 ANSWER 1800	COMPATIBLE 54 DETECTA 1 COMPATIBLE 2 RESTAUR 1 COMPATIBLE 4	NUM.ofQU YPE.ofQU NCOMPATIBLE 18 BLE WAR NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS JESTIONS INVALID 16 JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS	QUANTITY N/APPL. 81 0 QUANTITY N/APPL. 14 67 QUANTITY N/APPL. 14 67 QUANTITY N/APPL. 14	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1%	NEASUREMENT NCOMPATHEE 11,8% 2 NEASUREMENT NCOMPATHEE 14,3% 20 NEASUREMENT NCOMPATHEE 5,6% 8888 NEASUREMENT NCOMPATHEE 8,6%	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4% 94 MATERIAL INVALID 21,3%	SIGNAGE NAPPL. 52,9% 0 SIGNAGE NAPPL. 57,1% 0 SIGNAGE NAPPL. 38,9% 132 SIGNAGE NAPPL. 23,4%
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,8% Applied Activity Areas Total GEN ACCESS. VALLE (G.Ac V) TOTAL Form (G.Ac V) % 100,0%	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36 70 1687,8 ANSWER 1800 3,72%	COMPATIBLE 54 DETECTA 2 COMPATIBLE 2 RESTAUF 1 COMPATIBLE 4	NUM.ofQU YPE.ofQU NCOMPATIBLE 18 BLE WAR NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU YPE.ofQU NUM.ofQU	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS D DINING 2 D DINING 2 D DINING 1 5 STIONS NVALID 16 JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS	QUANTITY N/APPL. 81 0 QUANTITY N/APPL. 8 AREAS 6 QUANTITY N/APPL. 14 67 QUANTITY N/APPL. 421 16	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 14,61%	NEASUREMENT NCOMPATHEE 11,8% 2 NEASUREMENT NCOMPATHEE 14,3% 20 NEASUREMENT NCOMPATHEE 5,6% 888 NEASUREMENT NCOMPATHEE 8,6% 1,00%	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4% 94 MATERIAL INVALID 21,3% 0,22%	SIGNAGE NAPPL. 52,9% 0 SIGNAGE NAPPL. 57,1% 0 SIGNAGE NAPPL. 38,9% 132 SIGNAGE NAPPL. 23,4%
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac V) % 2,8% Applied Activity Areas Total GEN. ACCESS. VALLE (G.Ac.V) TOTAL Form (G.Ac.V) % 100,0% QUANTITY (QUA) EXISTENCE (EXI)	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36 70 1687,8 ANSWER 1800 3,72% 34,39%	COMPATIBLE 54 DETECTA 2 COMPATIBLE 2 RESTAUF 1 COMPATIBLE 4 1 COMPATIBLE 4	NUM.of QU YPE.of QU NCOMPATIBLE 18 BLE WAR NUM.of QU YPE.of QU NUM.of QU	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS JESTIONS JESTIONS INVALID 16 JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS	QUANTITY N/APPL. 81 0 QUANTITY N/APPL. 8 AREAS 6 QUANTITY N/APPL. 14 67 QUANTITY N/APPL. 421 16 149	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1%	меляленнент исомратиее 11,8% 2 меляленент исомратиее 14,3% 20 меляленент исомратиее 5,6% 888 меляленент исомратиее 5,6% 1,00% 2,61%	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4% 94 MATERIAL INVALID 21,3% 0,22% 4,67%	SIGNAGE NAM. 52,9% 0 SIGNAGE NAM. 57,1% 0 SIGNAGE NAM. 38,9% 132 SIGNAGE NAM. 23,4% 0,89% 8,28%
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 2,8% Applied Activity Areas Total GEN. ACCESS. VALLE (G.Ac.V) TOTAL Form (G.Ac.V) % 100,0% QUANTITY (QUA) EXISTENCE (EXI) MEASUREMENT (MEA)	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36 70 1687,8 ANSWER 1800 3,72% 34,39% 49,33%	COMPATIBLE 54 DETECTA 2 COMPATIBLE 2 RESTAUF 1 COMPATIBLE 4 1 COMPATIBLE 841 29 339 356	NUM of QU YPE.of QU NEONFATHER 18 BLE WAR NUM of QU YPE.of QU NUM of QU NEONFATHER 154	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS INVALID 16 JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS	QUANTITY N/APPL. 81 0 QUANTITY N/APPL. 8 AREAS 6 QUANTITY N/APPL. 14 67 QUANTITY N/APPL. 421 16 149 202	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1%	NEASUREMENT NCOMPATHEE 11,8% 2 NEASUREMENT NCOMPATHEE 14,3% 20 NEASUREMENT NCOMPATHEE 5,6% 8888 NEASUREMENT NCOMPATHEE 8,6% 1,00% 2,61% 4,44%	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4% 94 MATERIAL INVALID 21,3%	SIGNAGE NAML. 52,9% 0 SIGNAGE NAML. 57,1% 57,1% 0 SIGNAGE NAML. 38,9% 132 SIGNAGE NAML. 23,4% 0.89% 8,28% 11,22%
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 2,8% Applied Activity Areas Total GEN. ACCESS. VALLE (G.Ac.V) 707AL Form (G.Ac.V) % 100,0% QUANTITY (QUA) EXISTENCE (EXI) MEASUREMENT (MEA) MATERIAL (MAT)	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36 70 1687,8 ANSWER 1800 3,72% 34,39% 49,33% 5,22%	COMPATIBLE 54 DETECTA 2 COMPATIBLE 2 RESTAUF 1 COMPATIBLE 4 1 COMPATIBLE 841 29 339 356 52	NUM of QU YPE.of QU NCOMPATIBLE 18 BLE WAR NUM of QU YPE.of QU NUM of QU NOMPATIBLE 154 0 0	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS JESTIONS JESTIONS INVALID 16 JESTIONS	QUANTITY N/APPL 81 0 QUANTITY N/APPL 8 AREAS 6 QUANTITY N/APPL 14 67 QUANTITY N/APPL 14 16 149 202 19	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1%	NEASUREMENT NCOMPATHEE 11,8% 2 NEASUREMENT NCOMPATHEE 14,3% 20 NEASUREMENT NCOMPATHEE 5,6% 8888 NEASUREMENT NCOMPATHEE 8,6% 1,00% 2,61% 4,44% 0,00%	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4% 94 MATERIAL INVALID 21,3% 0,22% 4,67% 13,89% 1,28%	SIGNAGE NAMS 52,9% 0 SIGNAGE NAMS 57,1% 0 SIGNAGE NAMS 38,9% 132 SIGNAGE NAMS 23,4% 0,89% 8,28% 11,22% 1,06%
Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 14,2% Form 21 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 2,1% Form 23 Applied Activity Areas Activity Area (Ac V.) Total Form (G.Ac.V) % 2,8% Applied Activity Areas Total GEN. ACCESS. VALLE (G.Ac.V) TOTAL Form (G.Ac.V) % 100,0% QUANTITY (QUA) EXISTENCE (EXI) MEASUREMENT (MEA)	9 240,0 ANSWER 153 SCOPE 2 35,5 ANSWER 14 SCOPE 2 46,8 ANSWER 36 70 1687,8 ANSWER 1800 3,72% 34,39% 49,33%	COMPATIBLE 54 DETECTA COMPATIBLE 2 RESTAUF 4 COMPATIBLE 4 COMPATIBLE 841 29 339 356 52 65	NUM of QU YPE.of QU NEONFATHER 18 BLE WAR NUM of QU YPE.of QU NUM of QU NEONFATHER 154	JESTIONS NVALID 0 NINGS JESTIONS JESTIONS INVALID 16 JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS JESTIONS	QUANTITY N/APPL. 81 0 QUANTITY N/APPL. 8 AREAS 6 QUANTITY N/APPL. 14 67 QUANTITY N/APPL. 421 16 149 202	EXISTENCE COMPATIBLE 35,3% 6 EXISTENCE 14,3% 10 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1% 619 EXISTENCE COMPATIBLE 11,1%	NEASUREMENT NCOMPATHEE 11,8% 2 NEASUREMENT NCOMPATHEE 14,3% 20 NEASUREMENT NCOMPATHEE 5,6% 8888 NEASUREMENT NCOMPATHEE 8,6% 1,00% 2,61% 4,44%	MATERIAL INVALID 0,0% 6 MATERIAL INVALID 14,3% 0 MATERIAL INVALID 44,4% 94 MATERIAL INVALID 21,3%	SIGNAGE NAML. 52,9% 0 SIGNAGE NAML. 57,1% 57,1% 0 SIGNAGE NAML. 38,9% 132 SIGNAGE NAML. 23,4% 0.89% 8,28% 11,22%

 Table 1. Accessibility Values According to Evaluation Forms (Continued)

The Combined Table 1 shows the total number of answers gathered from all forms applied to all activity areas and the answers gathered (both numerical values and percentages over the G.Ac.V)

Form 15 About the Gathering Areas, provide 21,5% of the (G.Ac.V) and is the most problematic type of form in this study.

Form 7 about the Ramps of the Building provide the 20% of the (G.Ac.V.) and is the second most problematic type of form in this study.

Form 19 about the Signages in the building provide the 14,2% of the (G.Ac.V.) and is the third most problematic type of form in this study



Figure 1. Question Types and Answers and their percentages over the General Accessibility Value (G.Ac.V.) of the building

The Figure 1 shows that most of the Compatible answers to the existence (EXI) and measurement (MEA) requirements of the Accessibility Standards. As observed from the Figure there are very few Not Compatible Answers as of 8.6%.

 Table 2. Accessibility Values According to Activity Areas and related Activity Areas

Used Forms Activity Areas & Related Areas Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) % 12,5%			100120				viiy Arec		
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) %			,19,21,7,8					-	
Activity Areas (Ac.V.) %	(P.A)		NUM.ofQ			73	78	9	14
	211,4		TYPE.ofQ	UESTION	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	ISIGNAGE
12,5%	ANSWER	OMPATIBLE	COMPATIBL	INVALID	N/APPI	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
	185	61	22	15	87	33,0%	11,9%	8,1%	47,0%
Used Forms		347810	11,12,19,21						
Activity Areas & Related Areas	(ME.)		NUM of Q		16	147	198	19	39
Activity Areas (Ac.V.) Total	592,7			UESTION	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	ISIGNAGE
· · · ·	ANSWER		COMPATIBL		N/APPL.	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
35,1%	406	142	44	54	166	35,0%	10,8%	13,3%	40,9%
Used Forms		7,8,10,12,1	19						
Activity Areas & Related Areas	(V.C.)		NUMofQ	UESTIONS	7	84	121	20	25
Activity Areas (Ac.V.) Total	188.9		TYPE.of O	UESTION	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	ISIGNAGE
	ANSWER	COMPATIBLE	COMPATIBL		N/APPL.	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
11,2%	253	105	18	57	73	41,5%	7,1%	22,5%	28,9%
11,270	200	105	18	2/	/2	41,3%	/,170	22,276	28,9%
Used Forms		7,12,19,							
Activity Areas & Related Areas	(H.C.)		NUM.ofQ	UESTIONS	0	53	92	22	21
Activity Areas (Ac.V.) Total	81,4		TYPE.ofQ	UESTION	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	ISIGNAGE
Activity Areas (Ac.V.) %	ANSWER	OMPATIBLE	COMPATIBL	INVALID	N/APPL.	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
4,8%	173	78	3	60	32	45,1%	1,7%	34,7%	18,5%
1,070	112				~~	10,270	4,170	21,170	10,070
I lead Forms		10.16.16.1	•						
Used Forms		12,15,16,1							
Activity Areas & Related Areas	(B.M.)			UESTIONS	4	59	90	10	10
Activity Areas (Ac.V.) Total	166,1		TYPE.ofQ	UESTION	QUANTITY	EXISTENCE	MEASUREMENT	MATERIAL	ISIGNAGE
Activity Areas (Ac.V.) %	ANSWER	COMPATIBLE	COMPATIBL	INVALID	N/APPL.	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
9,8%	173	93	15	42	23	53,8%	8,7%	24,3%	13,3%
Used Forms		12,15,16,1	0.23						
Activity Areas & Related Areas	(D.A.)		NUM.ofQ	UESTIONS	7	64	100	10	10
	142.5								
Activity Areas (Ac.V.) Total				UESTION			MEASUREMENT	MATERIAL	ISIGNAGE
	ANSWER		COMPATIBL	INVALID	N/APPL	COMPATIBLE	NCOMPATIBLE	INVALID	NAPPL.
8,4%	190	94	16	49	31	49,5%	8,4%	25,8%	16,3%
Used Forms		11,12,15,1	6						
Antipites Access Articles A.A.	(R.S.)		NUM.ofQ	UESTIONS	2	52	85	9	7
Activity Areas & Related Areas	31,3								1
Activity Areas & Related Areas Activity Areas (Ac.V.) Total				ULSIN	QUANTITY	EXISTENCE	MEASUREMENT		/
Activity Areas (Ac.V.) Total	ANCHOR	COMPATING 1	COMPATION					MATERIAL	
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) %	ANSWER 152		COMPATIBL	INVALID	N/APPL.	COMPATIBLE	NCOMPATIBLE	MATERIAL INVALID	NAPPL.
Activity Areas (Ac.V.) Total	ANSWER 153	COMPATIBLE 96	/COMPATIBL 7					MATERIAL	
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) % 1,9%		96	7	INVALID	N/APPL.	COMPATIBLE	NCOMPATIBLE	MATERIAL INVALID	NAPPL.
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) %		96 11,12,15,1	7 6	INVALID 48	N/APPL 2	COMPATIBLE 62,7%	NCOMPATIBLE	MATERIAL INVALID	NAPPL.
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) % 1,9%		96 11,12,15,1	7	INVALID 48	N/APPL 2	COMPATIBLE	NCOMPATIBLE	MATERIAL INVALID	NAPPL.
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) % 1,9% Used Forms	153	96 11,12,15,1	7 6 NUM.ofQ	INVALID 48	N/APPL 2 2	62,7%	NCOMPATIBLE 4,6%	MATERIAL INVALID 31,4%	NAPPL.
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) % 1,9% Used Forms Activity Areas & Related Areas Activity Areas (Ac.V.) Total	153 (C.F.) 29,5	96 11,12,15,1	7 6 NUM of Q TYPE.of Q	UESTIONS	N/APPL. 2 2 QUANTITY	62,7% 52 EXISTENCE	A.6%	MATERIAL INVALID 31,4% 9 MATERIAL	NATU 1,3% 7 ISIGNAGE
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) % 1,9% Used Forms Activity Areas & Related Areas Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) %	153 (C.F.) 29,5 ANSWER	95 11,12,15,1 :OMPATIBLE	7 6 NUM of Q TYPE. of Q (COMPATIBL	INVALID 48 UESTIONS UESTION	N/APPL. 2 QUANTITY N/APPL.	62,7% 52 EXISTENCE COMPATIBLE	NCOMPATHEE 4,6% 85 MEASUREMENT NCOMPATHEE	MATERIAL INVALID 31,4% 9 MATERIAL INVALID	NAPPL. 1,3% 7 ISIGNAGE NAPPL.
Activity Areas (Ac.V.) Total Activity Areas (Ac.V.) % 1,9% Used Forms Activity Areas & Related Areas Activity Areas (Ac.V.) Total	153 (C.F.) 29,5	96 11,12,15,1	7 6 NUM of Q TYPE.of Q	UESTIONS	N/APPL. 2 2 QUANTITY	62,7% 52 EXISTENCE	A.6%	MATERIAL INVALID 31,4% 9 MATERIAL	NATU 1,3% 7 ISIGNAGE
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The Table 2 Shows the Accessibility Values According to Activity Areas and related Activity Areas and their percentages over the General Accessibility Value (G.Ac.V.) of the building.

It can be Observed form the table that, the Main Entrance of the Building (M.E.) has contributed mostly to the general Accessibility Value (G.Ac.V.) of the building with 35.1. The second most problematic activity areas were the Closed Parking Areas (P.A.) of the building with 12.5%. The third most problematic activity areas of the building were the Vertical Circulation (V.C.) of the building with 11,2%.

The table also shows that there are a vast number of "COMPATIBLE" answers to Most of the questions. Nevertheless, this result would be important to actor the most problematic activity area and improve the Accessibility situation to improve more easily.



Figure 2. Activity Areas and related activity areas values that contribute to the general accessibility Value (G.Ac.V.) of the building [P.A:Closed Parking Area, M.E: Main entrance, V.C: Vertical Circulation, H.C: Horizontal Circulation, B.M. Big Market Area, D.A: Dining Area, R.S. Retail Shops, C.F: Cinema Floor, W.C: WC and service areas, R.A: restaurant Areas)

Figure 2 shows that, the majority of the Accessibility Value (Ac.V.) was collected from the Main Entrance (M:E) of the building. If an implementation of the Accessibility standards were to be apllied firstly to this activity area, the improvement of the Accessibility value would be very important.

#### **4. CONCLUSION**

The existing situation on the shopping center chosen for this study was observed to be positive and mostly compatible with the ADA accessibility standards for the handicapped people. The problems observed would be easily solved by small renovations and improve the quality of the shopping center not only for the disabled but also all other users.

The main entrance areas should be altered in a way that would ease the access of wheelchair users and visually impaired people by adding ramps and detectable warning on doors and wall. Also, Signage all around the building should be improved for way finding and orientation as well as emergency escape in cases of emergency.

This method proposed by the researcher in the Ph.D. thesis in the Gazi University, Institute of Natural and Applied Sciences, has been applied in many other M.Sc. thesis by man researchers and has been a concrete and effective way of determining the Accessibility problems in many kinds of buildings. Municipality buildings, High schools, Libraries, Elderly Care Facilities, University campuses, and city Hospitals are among many completed studies by other researchers.

Ongoing research are also conducted by the researcher with M.Sc. students about the Accessibility of historical environments and Emergency evacuation of handicapped people in cases of fire from buildings. Those studies are about to be concluded within the following years and valuable contribution to architectural education would be achieved.

### **CONFLICTS OF INTEREST**

No conflict of interest was declared by the author.

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